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ERCB
Energy Resources Conservation Board
640 Fifth Avenue SW
Calgary, Alberta
Canada T2P 3G4

Informational Letter IL 89-8

TO: All Oil and Gas Operators
All Crude Oil Shippers
All Crude Oil Pipeline Operators

27 July 1989

REVISED MODIFIED PRORATION PLAN - JULY 1989

The Modified Proration Plan (MPP) was introduced by the ERCB on a trial basis in June 1987, including the condition that the Market Demand (MD) System would be re-introduced if the producers were unable to market predefined minimum volumes. Given the widespread industry support for the MPP, the ERCB issued a news release in November 1987 stating that it would be continued indefinitely, and that an ERCB/Industry Task Force would review ways of reducing the complexity of the system that should be used in time of production curtailment, as well as simplifying the definition of the minimum production volumes. Please refer to ERCB Report 87-D for complete details of the MPP.

The ERCB/Industry Task Force has completed its review of the functioning of the MPP and concluded that some revisions are appropriate and that the MD System should be discontinued. The ERCB has adopted the recommendations of the Task Force, following approval by the industry associations (CPA, IPAC, and SEPAC) and the APMC, and the concurrence of feeder pipelines. Complete details of the proposed revisions are outlined in the attached Task Force Report.

Summary of the Proposal

It is generally acknowledged that the need to place restrictions on crude oil production is unlikely in the foreseeable future and, if required, would not be significant or extend for a long time period. Notwithstanding that position, it is the general consensus in the industry that a formal contingency program must be available that would permit an orderly allocation of oil production to meet the needs of the marketplace. While the MD System developed in the 1950s and 1960s was appropriate for its time, it is recognized that the System is inordinately complex and outdated to satisfy the current free market environment. Accordingly, the current MD System (Basic Proration Plan) will be discontinued as the back-up to the MPP and will be replaced by a system of pipeline prorationing.

Under the revised MPP, production prorationing will be applied only to specific crude oil streams on specific feeder pipelines depending on the market for each stream. Synthetic crude oil, pentanes plus, and bitumen would be excluded from the program.

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The ERCB will stop issuing the IP Order following the September 1989 IP Order to be published about 24 July 1989. In its place, commencing with the month of October 1989, the Board intends to release an MRL Order which will contain the data and procedures for calculating the maximum rate limitations (MRLs) for all light-medium and heavy crude oil-producing entities in the province. This initial MRL Order will be published about 28 September 1989. To allow individuals the opportunity to become familiar with the Order format, the ERCB also intends to issue a sample MRL Order for September 1989.

Under the revised MPP, individual production entities would be assigned a complaint level, to replace the existing initial production level. Any producer unable to market production equal to this level would be allowed to apply for the implementation of production prorationing. Under the revised system, each producer will be responsible for determining his own complaint level(s) as described in the attached Task Force Report.

When the contingency plan for pipeline prorationing becomes operational in the summer of 1990, the administrative process of filing refinery nominations by shippers will be discontinued. The demand level for Alberta crude oil will be derived from feeder-pipeline-verified Notices of Shipment, and shippers will be required to file an after-the-fact report showing the destination of all Alberta crude oil purchased. The ERCB will discontinue holding a hearing, to review refinery nominations, following the August 1989 hearing. A summary of the nominations received will continue to be issued by the Board.

The Board, with advice from the Task Force, continues to review the common purchaser legislation as an alternative to pipeline prorationing that could be used by the ERCB to resolve intra-pool problems related to production below the complaint level.

Any problems and concerns relating to the proposed revisions to the Modified Proration Plan should be addressed to Mr. John Newton (297-2397) or Mr. Bill Oancia (297-3491) of the ERCB Economics Department.

F. J. Mink
Board Member

attachment

ERCB/INDUSTRY/APMC TASK FORCE

ON PRORATIONING

PROPOSED

REVISIONS TO THE MODIFIED PRORATION PLAN

JULY 1989

REVISIONS TO THE MODIFIED PRORATION PLAN

JULY 1989

INTRODUCTION

Pursuant to recommendations included in ERCB Report 87-D, the ERCB/Industry Task Force on Prorationing has reviewed the long term appropriateness of the Modified Proration Plan (MPP). This review covered the following elements:

1. The system of establishing initial production levels.

2. The backstop prorationing system.

3. Administrative systems.

In examining these aspects of the MPP and in developing recommendations for improvements, the Task Force has upheld the principle of providing non-discriminatory market access for all crude oil producers. Having reviewed the experience with the MPP since its inception 1 June 1987, and the current and projected supply/demand balance for Alberta, the Task Force believes that there is little likelihood that prorationing will ever be required in the future. However, in the event that it will be required, there is a need to replace the existing system, which depends on a declining number of high productivity light-medium pools, to compensate for market constraints.

In conducting the review, the Task Force considered various circumstances that could arise which might result in production cutbacks. The mechanisms defined under the existing MPP were then tested for appropriateness relative to alternatives. The chief conclusion arising from this review was that no one solution could fairly resolve all the different types of shut-in situations. Accordingly, for each situation considered, the Task Force has defined a set of remedial actions that represent the best match for the problem encountered. Examples that were central to the development of this concept are discussed briefly below.

Pipeline Apportionment

If insufficient pipeline capacity exists, pipeline apportionment, as currently practised by National Energy Board regulated carriers, is thought to be a reasonable course of action. Under apportionment, the total amount shipped by an individual shipper is restricted and it is up to the shipper to determine how to reduce receipts of various crude streams in order to meet apportionment restrictions. As long as shippers treat all producers equitably, the Task Force believes this approach works well and there is no need for government regulation of production.

Prorationing

Other circumstances may arise, however, where apportionment is not required or, by itself, may not result in equitable treatment for all

producers. To help identify these situations, production "complaint" volumes would continue to be defined for each production entity allowing producers to determine whether or not they are being treated fairly. The provision for a "complaint" volume was established under the MPP and the original terminology referred to it as the Initial Production (IP) level.

If production falls below the "complaint" level, the ERCB may be requested to make a decision as to the most appropriate means of remedying the situation. A specific set of remedies that the Task Force is advocating involves pipeline prorationing. Provisions would be made for either confining prorationing to a single feeder pipeline or to extend prorationing to other feeder pipelines shipping similar quality crude if circumstances warrant.

In general terms, pipeline prorationing will allocate market demand for a specific crude oil stream on a particular feeder pipeline across all producers of that crude stream on that line, on a prorated basis. Unlike the original prorationing plan, a lack of demand for one particular crude type will not affect other types of production. Once pipeline prorationing is invoked, individual production levels would not be strictly a matter agreed to by contract between producer and purchaser. Nevertheless, the market may exert considerable influence over which pipelines are subject to production restriction and which are not. The principles of interpool and intrapool equity will be preserved to the extent that producers on a prorated pipeline will be allowed to supply crude oil to the available market according to a fixed formula.

Other

If other ways of resolving problems are developed, it may be unnecessary to resort to prorationing. For example, the Task Force has been discussing the prospect of streamlining the common purchaser provisions of The Oil and Gas Conservation Act to allow for more expeditious decision making. This would enable the ERCB to consider designating specific buyers as common purchasers in individual pools. Such an action may be successful in addressing certain producer complaints.

It should be noted that ample opportunity will be provided to impacted parties to express opinions on the desirability of any of the solutions discussed above. It is expected that, following the receipt of a specific complaint by either a producer or an association, the solution would be determined by the ERCB based on advice provided by the industry associations and the APMC. Attachment No. 1 is a schematic diagram that summarizes the discussion of potential problems and solutions. It indicates the different decisions and associated actions that would be taken once a complaint arises.

The next section provides a detailed description of the revised system and consequent changes to the existing MPP.

DESCRIPTION OF REVISED SYSTEM

1. The terminology adopted for the description of the revised system is defined hereafter:

Basic Well Rate (BWR)

The lowest unpenalized allowable assigned to a producing oil well, related to the average well depth, and as tabulated in Schedule 5 to the Oil and Gas Conservation Regulations.

Reference Rate

The average of the most recent unrestricted 3-month production period as reported to the ERCB on Board Form S-1 and available from ERCB production records. Production in excess of the MRL will not be used in this calculation.

For a well subject to the new oil well production period, the reference rate will be the lesser of the new well rate as described in the ERCB Informational Letter IL 87-9 or the well's productive capacity.

The operator can apply to the ERCB to have the reference rate calculated on some other basis if the above proved unsatisfactory.

Complaint Level

The reference rate, if less than the BWR, or the BWR plus 70 per cent of the difference between the reference rate and the BWR.

Minimum Level

The lesser of the BWR and the reference rate.

Maximum Rate Limitation (MRL)

The maximum rate of production prescribed for the avoidance of waste, after application of any applicable penalty factor (Oil and Gas Conservation Regulations, 1.020(2)10.)

2. Individual production entities would continue to be assigned a complaint level, below which a producer may apply for the implementation of pipeline prorationing. However, these complaint levels would no longer be published every month. Each producer will be responsible for determining his own complaint level(s).

3. Prorationing would not be implemented automatically. When a producer was unable to obtain a market for his full complaint level, he could apply to the ERCB either individually or through his association for implementation of pipeline prorationing on a specific feeder pipeline or pipelines. If more than one crude type is shipped on the pipeline(s) involved, it would only apply to the crude type for which market demand was reduced.

4. Each production entity would have a "designated" feeder pipeline whether it is physically tied-in or not. Prorationing would be applicable to each production entity. The feeder pipeline would prorate to the pipeline connected facility level. The pipeline connected facility operator would prorate to the production entity level. Guidelines and administrative practices for prorationing are specified in Attachment No. 3.

5. When prorationing was invoked on a specific feeder pipeline, all pipeline connected facilities would be cut according to the ratio of market demand less the minimum level to the sum of the feeder pipeline reference rates less the minimum level, such that no production entity would be subsequently cut below its minimum level except as described in 6 below.

6. If prorationing is initially applied to a specific pipeline which carries individual components of light sweet blends (MSW) and light sour blends (MSO) (as identified in Attachment No. 4), an individual producer could apply to the ERCB to extend prorationing to other pipelines, when his production falls below his complaint level. The ERCB may then institute pipeline prorationing on all "associated" feeder pipelines until all "associated" pipelines are at the sum of the individual production entity's minimum levels. Further cuts required beyond this point would be shared on a pro rata basis across all "associated" feeder pipelines, even though this will reduce production entities below their minimum level.

7. Once pipeline prorationing is implemented on a specific feeder pipeline or on associated feeder pipelines by the ERCB, the pipeline(s) will remain in prorationing for a minimum period as specified by the ERCB. At the end of the designated period, the situation will be reviewed and pipeline prorationing may be terminated at the discretion of the ERCB, or it may be continued for a further period as specified.

CHANGES TO CURRENT MPP SYSTEM

1. The current MD system (Basic Proration Plan) would no longer be retained as the backup to the MPP and would be replaced by a system of pipeline prorationing. The Oil and Gas Conservation Act and its Regulations would be amended to provide for pipeline prorationing. The changes will in no way affect the special provisions, made by the Alberta government, which exempts existing SCO projects and some existing in situ bitumen projects

from prorationing, and which are recognized in the current Modified Proration Plan (MPP).

The administrative process of filing refinery nominations by shippers and the market demand hearing would be replaced by a demand level derived from feeder-pipeline-verified notices of shipment by crude type.

Shippers will be required to file an after-the-fact report showing the destination of all Alberta crude oil purchased. This will be held confidential by the Board, but an aggregated summary will be published. If, in the future, this information becomes available from other sources, then these shipper reports will be discontinued.

2. In the current system, prorationing is applied to a selected group of high productivity light-medium pools within Alberta. Under the revised system pipeline prorationing could be applied to all pools contributing to the following streams:

light sweet crudes (see Attachment No. 4)
light sour crudes (see Attachment No. 4)
Bow River Pipeline conventional heavy
Husky Pipeline conventional heavy
BP Oil Co. Pipeline conventional heavy
Murphy Oil Co. Pipeline conventional heavy

Note that pipeline prorationing, as described, cannot be applied to condensate, bitumen production and SCO production. If necessary, a system for prorating these types will be developed that would honour existing agreements.

3. Under the revised system, the IP Order would no longer be published. In its place the ERCB would issue an "MRL Order" each month, prior to the 28th of the month preceding the month of production, which would contain the data and the procedures for calculating the maximum rate limitations (MRLs) fo all light-medium and heavy crude oil production entities, and would also set out the Basic Well Rate (BWR) applicable to each crude oil pool in the province. The format for the MRL Report is shown on Attachment No. 2.

The ERCB would continue to calculate GOR and, where applicable, WOR penalty factors, on the basis of production from the third preceding month. The ERCB would also normally recognize the production due to approval of a higher MRL in the month following the month of approval. Production in excess of the MRL would be subject to existing MRL administration.

3. Prorationing would not be implemented automatically. When a producer was unable to obtain a market for his full complaint level, he could apply to the ERCB either individually or through his association for implementation of pipeline prorationing on a specific feeder pipeline or pipelines. If more than one crude type is shipped on the pipeline(s) involved, it would only apply to the crude type for which market demand was reduced.

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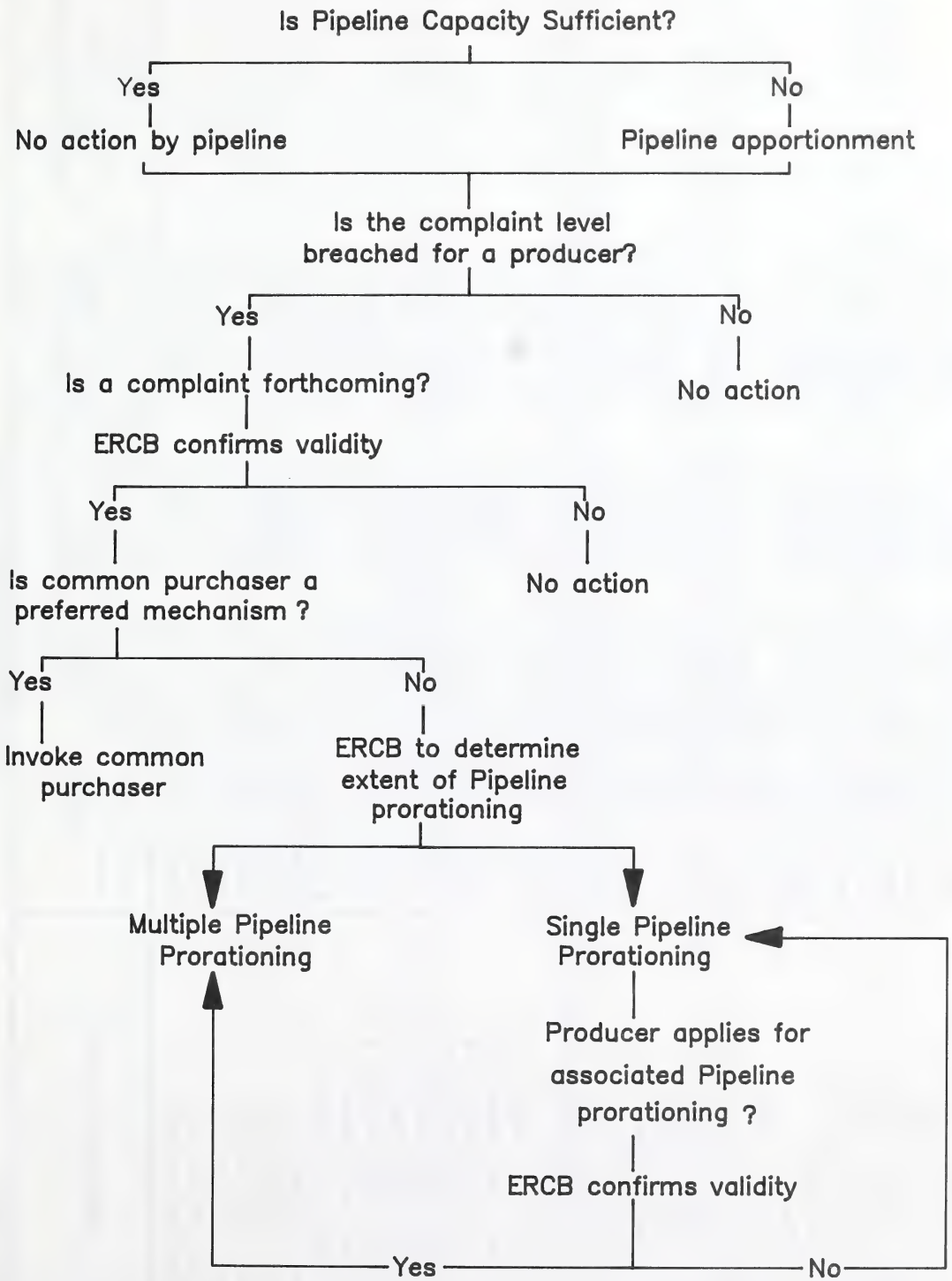
Is Pipeline Capacity Sufficient?
Yes
No
No action by pipeline
Pipeline apportionment
Is the complaint level breached for a producer?
Yes
No
Is a complaint forthcoming?
No action
ERCB confirms validity
Yes
No
Is common purchaser a preferred mechanism ?
No action
Yes
No
Invoke common purchaser
ERCB to determine extent of Pipeline prorationing
Multiple Pipeline Prorationing
Single Pipeline Prorationing
Producer applies for associated Pipeline prorationing ?
ERCB confirms validity
Yes
No

1 FIELD/POOL NAME	2 CODES FIELD	POOL	POOL TYPE	3 BASIC WELL RATE m^3/day	4 MAXIMUM RATE LIMITATION m^3/day/ha	5 MAXIMUM RATE LIMITATION m^3/month/ha	6 BASE GOR m^3/m^3	7 SPECIAL PROVISIONS (SEE APPENDIX II) CLAUSE
RICINUS CARDIUM HHH	0785	176308	00	15.5	0.2422	7.2660	280	
RICINUS CARDIUM III	0785	176309	00	13.5	0.2109	6.3270	490	
RICINUS CARDIUM JJJ	0785	176310	00	10.0	0.2578	7.7340	200	
RICINUS CARDIUM KKK	0785	176311	00	8.0	G P P			
RICINUS CARDIUM MMM	0785	176313	00	15.5	0.7625	22.8750	290	
RIVIERE WABAMUN A	0789	658001	00	8.0	0.2938	8.8140	100	
ROCKYFORD UPPER MANNVILLE C	0790	250003	00	8.0	0.1250	3.7500	110	
ROCKYFORD UPPER MANNVILLE D	0790	250004	00	8.0	0.1250	3.7500	170	
ROCKYFORD UPPER MANNVILLE E	0790	250005	00	8.0	0.1250	3.7500	130	
ROCKYFORD UPPER MANNVILLE F	0790	250006	00	8.0	0.2477	7.4310	140	
ROCKYFORD LOWER MANNVILLE A	0790	310001	00	8.0	0.1875	5.6250	150	
ROCKYFORD LOWER MANNVILLE B	0790	310002	00	8.0	0.2578	7.7340	110	
ROCKYFORD LOWER MANNVILLE C	0790	310003	00	8.0	0.1250	3.7500	130	
ROCKYFORD LOWER MANNVILLE F	0790	310006	00	8.0	0.1250	3.7500	90	
ROCKYFORD LOWER MANNVILLE G	0790	310007	00	8.0	0.1484	4.4520	80	
ROSEBUD BLAIRMORE	0794	244000	00	13.5	G P P			
ROSEVEAR SECOND WHITE SPECKS A	0796	186001	00	8.0	0.1406	4.2180	100	1
ROWLEY VIKING C	0798	218003	00	8.0	0.1250	3.7500		
ROWLEY UPPER MANNVILLE D	0798	250004	00	8.0	0.2023	6.0690	90	1
ROWLEY UPPER MANNVILLE E	0798	250005	00	8.0	0.1387	4.1610	130	1
ROWLEY LOWER MANNVILLE G	0798	310007	00	8.0	0.1250	3.7500	110	
ROWLEY LOWER MANNVILLE H	0798	310008	00	8.0	G P P			
ROWLEY LOWER MANNVILLE J	0798	310010	00	8.0	0.1250	3.7500		
ROWLEY PEKISKO A	0798	642001	00	8.0	G P P			
RYCROFT CHARLIE LAKE A	0802	508001	00					
PRIMARY	0802	508001	00	8.0	0.1250	3.7500	120	
WATER FLOOD	0802	508001	20	8.0	0.2884	8.6520	120	
RYCROFT CHARLIE LAKE C	0802	508003	00	8.0	0.1250	3.7500	120	
RYCROFT CHARLIE LAKE J	0802	508010	00	8.0	0.1250	3.7500	90	
RYCROFT CHARLIE LAKE L	0802	508012	00	8.0	0.1250	3.7500	90	
RYCROFT CHARLIE LAKE M	0802	508013	00	8.0	0.1339	4.0170	120	
RYCROFT HALFWAY B	0802	516002	00	8.0	0.1250	3.7500	160	
RYCROFT HALFWAY C WATER FLOOD	0802	516003	20	8.0	0.3643	10.9290	120	

ATTACHMENT NO. 2

ATTACHMENT NO. 3

ADMINISTRATIVE PROCEDURES FOR PIPELINE PRORATIONING

1. The ERCB, upon application from a producer or his association, could

   a) authorize prorationing on a specific pipeline, which may include a feeder pipeline and several interconnecting pipelines,

   b) authorize prorationing on a specific pipeline and all associated pipelines at the outset,

   c) upon further application, extend prorationing to all associated pipelines, and

   d) if more than one pipeline is involved, establish the demand for each pipeline on some equitable basis.

2 The feeder pipeline(s), when required, would establish the demand level as follows:

   a) Producing battery operators delivering oil via pipeline connected batteries provide forecast of deliveries by shipper to the pipeline connected battery using Form A*.

   b) Producing battery operators delivering oil via truck terminal provide forecast of deliveries by shipper to the truck terminal operator using Form A, and to the shippers using Form B*.

   c) Pipeline connected battery operators provide a forecast of deliveries by shipper to the feeder pipeline operator using Form A and to the shippers using Form B.

   d) Truck terminal operators provide a forecast of deliveries by shipper to the feeder pipeline operator using Form A.

   e) Feeder pipeline operators verify the forecasts received and provide shippers with totals.

   f) Shippers provide feeder pipeline and extra-provincial pipeline operators with notice of shipment based on verified feeder pipeline forecasts. This notice of shipment volume becomes the demand for the feeder pipeline unless demand is otherwise determined by the ERCB.

3. The ERCB will maintain a computer file of reference rates and minimum levels for each production entity. Computer systems will be developed to determine the total reference rate and total minimum level for each connected and designated facility, and the total reference rate and total minimum level for the pipeline(s) to which prorationing was applied. Note that during a period of

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* Note that Initial Production Level (IPL) or complaint level will no longer be reported on these forms.

pipeline prorationing, the designated production entities and their reference rates would only be amended upon application to the ERCB.

4. a) When the demand for the feeder pipeline has been established at a level greater than the sum of the minimum levels, the feeder pipeline operator calculates the Proration Factor (PF) as follows and advises the pipeline connected facility operator of same:

$$PF = \frac{(\text{demand} - \Sigma \text{ minimum level})}{(\Sigma \text{ reference rate} - \Sigma \text{ minimum level})}$$

b) The pipeline connected facility operator determines the Prorated Allowable (PA) for each entity as follows and advises the entity operator of same:

PA = (PF x (reference rate - minimum level)) + minimum level

5. a) When the demand for the feeder pipeline has been established at a level less than the sum of the minimum levels, the feeder pipeline operator calculates the Proration Factor (PF) as follows and advises the pipeline connected facility operator of same:

$$PF = \frac{\text{demand}}{\Sigma \text{ minimum levels}}$$

b) The pipeline connected facility operator determines the Prorated Allowable (PA) as follows and advises the entity operators of same:

PA = PF x entity minimum level

6. Individual producing entities, in conjunction with the facility operators, would be allowed to share their allowable production determined by the above formula, in some other fashion provided all parties affected were in agreement.

7. The Prorated Allowables determined in accordance with clause 4 or clause 5 above become the forecast volumes and all Forms A and B and pipeline notices of shipment would be revised accordingly.

8. GPP pools will not be granted special status in the proration system, other than they will not have an MRL unless specified otherwise.

9. The above administrative procedures are repeated each month until the ERCB, on its own initiative or upon application by a producer or his association, decides that there is no longer a need to prorate.

10. Under pipeline prorationing, the pipelines will ensure compliance with the allowables. In the event this becomes an issue in the future, the ERCB is prepared to establish appropriate rules and production penalties to ensure compliance.

ATTACHMENT NO. 4

ASSOCIATED FEEDER PIPELINES

Light Sweet Crudes

Gibson Light
Pembina*
Texaco*
Federated*
Peace
Ellerslie
Rainbow
Joarcam
Cremona
Rangeland
Milk River

Light Sour Crudes

Excelsior
Redwater
Gulf Alberta
Bellshill
Hamilton Lake
Bow River

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* Feeder pipelines marked with * contribute to lube stream, which is to be included as a subset of MSW.

ERCB
Energy Resources Conservation Board
640 Fifth Avenue SW
Calgary, Alberta
Canada T2P 3G4

Informational Letter IL 89-9

TO: All Oil and Gas Operators
All Crude Oil Shippers
All Crude Oil Pipeline Operators

27 July 1989

MODIFIED PRORATION PLAN - FORMS A AND B

Since implementing the Modified Proration Plan (MPP) in June of 1987, the ERCB/APMC/Industry Task Force on Prorationing, its subcommittee, the Feeder Pipeline Task Force, and the ERCB staff have continually monitored the performance of the MPP.

The ERCB has implemented revisions to the MPP, based on the recommendations of the Task Force, following approval by the industry associations (CPA, IPAC, and SEPAC) and the APMC. A description of these changes is contained in ERCB Informational Letter IL 89-8. Consequently, the Forms A and B, which are used by operators to forecast production deliveries, have been adjusted.

In addition, effective with the production month of May 1989, the ERCB implemented the Production/Injection Disposition (PID) System, resulting in the use of a new 7-digit battery code.

The revisions to Forms A and B are as follows:

- The field code has been eliminated and replaced by the new 7-digit battery code.

- The "Initial Production Crude Oil" and "Other Production Crude Oil" columns have been eliminated and replaced by the "Crude Oil" column in the area under Forecast Volumes. The Board notes that the information that is required to calculate the complaint level prescribed in IL 89-8 will be available from other sources. Efforts are under way to centralize these sources for access by both shippers and producers.

- The instructions on the reverse side have been revised to reflect the above changes.

Copies of the revised forms are attached for your convenience. Photocopies of the revised forms should be used by operators to forecast deliveries, starting with the forecast delivery month of October 1989 (as submitted during the first week of September 1989). Computer-generated information will continue to be accepted as long as the data is consistent with the requirements as specified on the reverse side of the forms.

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Note that the pipeline code will be used to identify the crude oil stream and crude oil type. A current list of these codes is attached. The APMC has recently revised these codes and questions on this matter should be directed to Mr. Gary Baerg (403-297-5442).

Any questions relating to the revised Forms A and B should be directed to Mr. Gordon Hedge of the Feeder Pipeline Task Force (403-233-5396) or Mr. John Newton, Manager, ERCB Economics Department (403-297-2397).

F. J. Mink
Board Member

attachment

FORM A - Alberta

Forecast of Crude Oil and Condensate Deliveries

To Truck Terminals, Cleaning Plants, Pipeline Connected Batteries, and Feeder Pipelines

Page	of

Operator Name:	Operator Code:	Delivery Month:
Address:		Date Submitted:
Representative:	Telephone:	Amendment: ☐ #

Forecast Locations

	Pipeline	OR	Truck Term	OR	Operator	Battery	Location Description
FROM							
DELIVERED TO							

Shipper

Code	Name
PMC	A.P.M.C.

Forecast Volumes (cubic metres)

Crude Oil	Segregated Condensate	TOTAL

FACILITY TOTALS

COMMENTS

See reverse side for instructions on completion and submission of this form.

8907

COMPLETION OF FORM A

This form is used to forecast volumes for crude oil and condensate that will be delivered to a receiving facility. The operator of the facility originating the delivery completes and submits this form indicating:

- The source location of the delivery,
- The destination location of the delivery,
- The forecasted delivery (m3 in the month) to each Shipper.

General

Page: Page number and number of pages submitted.

Operator Name: The name of the company submitting the forecast.

Operator Code: The ERCB-assigned alphanumeric code of the company submitting the forecast. This should ALWAYS be the company that originates the delivery from the batteries listed under "Forecast Locations".

Address: The mailing address, including city and postal code, of the company submitting the forecast.

Representative: The name of the person to whom inquiries about the forecast can be directed.

Telephone: The telephone number of the forecasting company's representative.

Delivery Month: Year and month during which forecast volumes will be delivered. Example: November 1988 is reported as 88 11.

Date Submitted: Date forecast or amendment is submitted.

Amendment: If the forecast amends an earlier forecast, enter a check mark in the box and show the amendment number after #. Number amendments in numerical sequence within the reported delivery month, e.g. 1,2,3, etc.

Forecast Locations

Indicate the codes of both the facility originating the delivery (**From**) and the facility receiving the delivery (**Delivered To**) by noting:

Pipeline Code: The APMC-assigned numeric code of the pipeline.

OR

Terminal Code: The APMC-assigned numeric code of the truck terminal or cleaning plant.

OR

Operator Code and Battery Code:

The ERCB-assigned alphanumeric code of the company operating the indicated battery, and the ERCB-assigned seven-digit battery code.

Possible Transfers:

FROM	DELIVERED TO: Pipeline	Truck Term	Oper - Battery
Pipeline	X		
Truck Term.	X	X	
Oper-Battery	X	X	X

Location Description: If the forecast location is a pipeline, enter the name of the pipeline. If the location is a truck terminal or cleaning plant, enter the name of the facility. If the location is a battery, enter the legal description of the battery.

Shipper

Code: The ERCB-assigned alphanumeric code of the company taking delivery of and shipping the oil/condensate.

Name: The name of the company taking delivery of and shipping the oil/condensate.

Forecast Volumes

The forecasted delivery volume to the shipper during the indicated month. Express the volume to the nearest 1/10 cubic metre under the categories noted below.

Crude Oil: The forecast delivery of crude oil for the indicated delivery month.

Segregated Condensate: The forecast delivery of segregated condensate for the indicated delivery month. Report only condensate which is segregated from crude oil and shipped as condensate.

Total: The sum of Crude Oil and Segregated Condensate.

Facility Totals: The total delivery to the receiving facility indicated in terms of the three categories noted above.

Comments: Used as required to explain forecasts that differ significantly from historical production levels, e.g. increases due to new wells or decreases because of field maintenance.

FORM SUBMISSION

The completed Form A's must be submitted to the receiving facility operator in accordance with the Modified Prorationing Plan *Information Forecast Reporting Calendar* as published by the ERCB. If computer-generated Form A's are submitted, the printed forms are to follow the Form A "standard" in terms of format, data order, and print size.

AMENDMENTS

Amendments are filed as required until the end of the delivery month. Amendments replace the previous forecast.

FORM B - Alberta

Forecast of Crude Oil and Condensate Deliveries to Shippers

Page of

Operator Name: | Operator Code:

Address:

Representative: | Telephone:

Shipper Name: | Shipper Code:

Delivery Month:

Date Submitted:

Amendment: ☐ #

Forecast Locations

Pipeline Code	Pipeline Name	Terminal Code	Battery Code

Battery Description:

Forecast Volumes (cubic metres)

Crude Oil	Segregated Condensate	Total

Comments:

Battery Description:

Comments:

Battery Description:

Comments:

Battery Description:

Comments:

Battery Description:

Comments:

See reverse side for instructions on completion and submission of this form.

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COMPLETION OF FORM B

This form is used to forecast, **to shippers**, volumes for crude oil and condensate that will be delivered during the delivery month. Operators complete and submit this form as follows:

- Operators of pipeline-connected batteries forecast the total delivery to be injected into the pipeline, i.e. deliveries of the pipeline-connected battery plus any transfers from other batteries as forecast on Form A's.
- Operators of non-connected batteries forecast deliveries on Form B *only* when the delivery is to a truck terminal or cleaning plant. Operators of non-connected batteries DO NOT forecast deliveries through connected batteries on this form.

General

Operator Name: The name of the company submitting the forecast.

Operator Code: The ERCB-assigned alphanumeric code of the company submitting the forecast. This should ALWAYS be the company operating the batteries listed under "Forecast Locations".

Address: The mailing address, including city and postal code, of the company submitting the forecast.

Representative: The name of the person to whom inquiries about the forecast can be directed.

Telephone: The telephone number of the forecasting company's representative.

Shipper Name: The name of the company taking delivery of and shipping the oil/condensate.

Shipper Code: The ERCB-assigned alphanumeric code of the company taking delivery of and shipping the oil/condensate.

Page: Page number and number of pages submitted.

Delivery Month: Year and month during which forecast volumes will be delivered. Example: November 1988 is reported as 88 11.

Date Submitted: Date forecast or amendment is submitted.

Amendment: If the forecast amends an earlier forecast, enter a check mark and show the amendment number after #. Number amendments in numerical sequence within the reported delivery month, e.g. 1,2,3, etc.

Forecast Locations

Pipeline Code: The APMC-assigned numeric code of the pipeline to which the pipeline-connected delivery facility (truck terminal, cleaning plant or battery) is connected.

Pipeline Name: The name of the pipeline to which the facility is connected.

Terminal Code: The APMC-assigned numeric code of the truck terminal or cleaning plant to which the oil/condensate is delivered. *Leave blank if the delivery is from a pipeline-connected battery.*

Battery Code:

- For batteries delivering to truck terminals and cleaning plants, enter the ERCB-assigned seven-digit battery code of the producing point battery.
- For batteries connected directly to pipelines, enter the ERCB-assigned seven-digit battery code of the pipeline-connected battery.

Battery Description: The legal description of the battery's location.

Forecast Volumes

The forecasted delivery volume to the shipper during the indicated month. Express the volume to the nearest 1/10 cubic metre under the categories noted below.

Crude Oil: The forecast delivery of crude oil for the indicated delivery month.

Segregated Condensate: The forecast delivery of segregated condensate for the indicated delivery month. Report only condensate segregated from crude oil and shipped as condensate.

Total: Sum of Crude Oil and Segregated Condensate.

Comments: Used as required to explain forecasts that differ significantly from historical production levels, e.g. increases due to new wells or decreases because of field maintenance.

FORM SUBMISSION

The completed Form B's must be submitted to the Shipper in accordance with the Modified Prorationing Plan *Information Forecast Reporting Calendar* as published by the ERCB. If computer-generated Form B's are submitted, the printed forms are to follow the Form B "standard" in terms of format, data order, and print size.

AMENDMENTS

Amendments are filed as required until the end of the delivery month. Amendments replace the previous forecast.

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LISTING OF PIPELINE AND TERMINAL NUMERICAL CODES
- BY STREAM TYPE AND NAME (as of July 21, 1989)

STREAM TYPE AND NAME	Pipeline Company	Pipeline Code	Terminal Code
LIGHT SWEET			
Cremona			
	Cremona Pipeline	034	
	Elkton Terminal		815
	Crossfield Terminal		816
	Turbo Refinery		814
Ellerslie			
	Imperial Ellerslie Pipeline	028	
	Gibson Acheson Terminal		846
	Gibson St. Albert Pipeline	053	
Federated			
	Federated Pipeline	036	
	CCS Judy Creek Cleaning Plant		819
	Gibson Morinville Terminal		820
	Swan Hills Terminal		821
	Kinakin Terminal		822
	Meekwap Pipeline	059	
	Meekwap Terminal		851
	Virginia Hills Terminal		853
	Tiverton Extension		944
Gibson Edmonton Light			
	Gibson Edmonton (Light) Terminal		825
Jorcam			
	Norcen Pipeline "Joarcam"	035	
Peace			
	Peace Pipeline	043	
	Gibson Edson Terminal		855
	Red Earth Terminal		856
	Valleyview Terminal		857
	Laglace Terminal		873
	Gordondale Terminal		881
	Laglace Cleaning Plant		937
	Kakwa Terminal		879
	North Edson Terminal		880
	Lator Terminal		874
	Newalta Redearth Cleaning Plant		941
	Nalcan Grande Prairie Cleaning Plant		942
	Valleyview Cleaning Plant		948

LISTING OF PIPELINE AND TERMINAL NUMERICAL CODES - BY STREAM TYPE AND NAME (as of July 21, 1989)

STREAM TYPE AND NAME	Pipeline Company	Pipeline Code	Terminal Code
Peace (continued)			
	Golden Rainbow High Prairie Cleaning Plant		854
	Golden Rainbow High Prairie Terminal		875
	Petro-Canada Pipeline	060	
	Gold Creek Terminal		891
	Pembina Edson	037	
	Edson Terminal		859
	BP Red Earth Pipeline	031	
Pembina			
	Pembina Pipeline	044	
	PreCambrian Cynthia Pembina Terminal		848
	Cutbank Niton Terminal		849
	Pembina Oil Separators Cleaning Plant		850
	Peco Terminal		858
	Breton Terminal		860
	Lodge Pole Terminal		861
	Willesden Green Terminal		862
	Cutbank Niton Cleaning Plant		868
	Petro-Canada Brazeau Truck Terminal		925
	Cynthia Pembina Terminal		930
	P.O.S. Elk Point Cleaning Plant		933
	Amoco West Pembina Terminal		934
	Enron Highvale Pipeline	052	
Rainbow			
	Rainbow Pipeline	055	
	Rainbow Terminal		863
	Zama Terminal		864
	Newalta Nipisi Terminal		929
	Newalta Nipisi Cleaning Plant		952
	Wabash Cleaning Plant		953
	Union Slave Pipeline	078	
	Husky Seal Pipeline	079	
	Norcen Pipeline "Golden"	058	
	Golden Truck Terminal		950
	Wabasca River Pipeline	054	
	Gulf Trout Cleaning Plant		836
	Sousa Pipeline	069	
	IPL Norman Wells	082	
	Strand Amigo Pipeline	081	
	Mobil Amigo Shekilie	084	

LISTING OF PIPELINE AND TERMINAL NUMERICAL CODES - BY STREAM TYPE AND NAME (as of July 21, 1989)

STREAM TYPE AND NAME	Pipeline Company	Pipeline Code	Terminal Code
Rainbow (continued)			
	Canterra Shekilie	085	
Rangeland			
	Rangeland Pipeline	045	
	Crimson Terminal		865
	Eckville Terminal		866
	Hartell Terminal		867
	Ricinus Terminal		869
	Eckville Central Treating Station		870
	Sundre Terminal		871
	Pincher Creek Terminal		872
	Valley Pipeline	049	
Texaco			
	Texaco Pipeline	047	
	Gibson Rimbey Terminal		876
	Chieftain Homerim Terminal		916
	Chieftain Homerim Cleaning Plant		917
LIGHT SOUR			
Hardisty Light (Bellshill)			
	Gibson Bellshill Pipeline	038	
	Gibson Hardisty (Light) Terminal		826
	Bow River Pipeline Hamilton Lake	030	
	Koch Throne Terminal		805
	Gibson Throne Terminal		807
	CCS Coronation Cleaning Plant		946
Gulf Alberta			
	Gulf Alberta Pipeline	032	
	Gibson Hussar Terminal		830
	Joffre Terminal		831
	New Norway Terminal		832
	Gibson Rowley Terminal		833
	Stettler Terminal		834
	West Drumheller Terminal		835
	Bumper Twining Pipeline	048	
	Bumper Terminal		878
	Rangeland Twining Pipeline	056	
	Samedan Pipeline	065	
	Royal Trust Energy Pipeline	066	

LISTING OF PIPELINE AND TERMINAL NUMERICAL CODES - BY STREAM TYPE AND NAME (as of July 21, 1989)

STREAM TYPE AND NAME	Pipeline Company	Pipeline Code	Terminal Code
Redwater			
	The Alberta Oil Sands Pipeline Ltd.	040	
	Imperial Excelsior Pipeline	041	
	Imperial Redwater Pipeline	080	
	Redwater Terminal		847
Pouce Coupe Boundary Lake			
	Norcen Pipelines (Pouce Coupe, Bonanza, Boundary Lake)	062	
	Taylor Terminal		892
	Amoco Boundary Lake		902
	Nalcan Taylor Cleaning Plant		927
	Taylor/Boundary Lake Terminal		928
Misc. Southern Alberta			
	Koch Coutts Terminal		940
	Reagan Pipeline	061	
MEDIUM SOUR			
Milk River			
	Murphy Milk River Pipeline	042	
	Milk River Terminal		852
	Milk River (Carway)		935
	Whitlash Terminal		838
	Manyberries Pipeline	083	
	Manyberries Terminal		943
	Bow River South	087	

LISTING OF PIPELINE AND TERMINAL NUMERICAL CODES
- BY STREAM TYPE AND NAME (as of July 21, 1989)

STREAM TYPE AND NAME	Pipeline Company	Pipeline Code	Terminal Code
HEAVY CRUDE			
Bow River A			
	Bow River "A" Pipeline	051	
	Fincastle Terminal		800
	Hays Terminal		801
	Princess Terminal		802
	Stanmore Terminal		803
	Tilley Terminal		804
	Turin/Retlaw Terminal		806
	Pollockville Terminal		809
	Gibson Hardisty (Heavy) Terminal		895
	Gibson Hays Terminal		936
	Jenner Terminal		938
	Koch Throne (Heavy) Terminal		939
	Gibson Provost Pipeline	068	
	Kaiser Hays Pipeline	064	
	Kaiser Hays Terminal		808
Chauvin			
	Chauvin Pipeline	033	
	Chauvin Terminal		810
	Gibson Hardisty at Chauvin		811
	Chauvin Custom Treating Facility		812
Gibson Edmonton Heavy	(not currently used)		
	Gibson Edmonton (Heavy) Terminal		829
Husky Lloydminster			
	Husky Lloydminster Pipeline	050	
	Lloydminster Terminal		839
	Lloydminster Cleaning Plant		840
	Hardisty Cleaning Plant		841
	Furness Cleaning Plant		896
	Tangleflags Cleaning Plant		904
	Husky Blackfoot Cleaning Plant		905
	Husky Blackfoot Terminal		906
	Husky Wildmere Cleaning Plant		907
	Husky Golden Lake #1 Cleaning Plant		908
	Husky Golden Lake #3 Cleaning Plant		909
	Husky Lashburn Cleaning Plant		910
	Husky Big Gully Cleaning Plant		912
	Husky Northminster Cleaning Plant		913
	Husky Aberfeldy #2 Cleaning Plant (Sask.)		914
	Husky Golden Lake #4 Cleaning Plant (Sask.)		915
	Amoco HB Tangleflags Terminal (Sask.)		922
	Amoco HB Furness Terminal (Sask.)		923
	Husky South Aberfeldy Terminal (Sask.)		932
	Cold Lake Clean Oil Plant		947
	Standard Hill Truck Pit		949

LISTING OF PIPELINE AND TERMINAL NUMERICAL CODES - BY STREAM TYPE AND NAME (as of July 21, 1989)

STREAM TYPE AND NAME	Pipeline Company	Pipeline Code	Terminal Code
Husky Wainwright-Kinsella			
	Husky Wainwright-Kinsella	088	
	Wainwright Cleaning Plant		842
	Wainwright Terminal		844
	Pex Kinsella Cleaning Plant		886
	Kinsella Terminal		901
Manito			
	Murphy Manito Pipeline	063	
	Blackfoot Cleaning Plant		882
	Dulwich Cleaning Plant		883
	Murphy Blackfoot Terminal		884
	Canadian Reserve Cleaning Plant		885
	Eye Hill Cleaning Plant		887
	Big Gully Cleaning Plant		893
	Lone Rock Cleaning Plant		894
	Murphy Unity Terminal		918
	Murphy Cactus Lake Terminal		919
	Cactus Lake Cleaning Plant (Sask.)		931
	Kerrobert Terminal (Sask.)		945
	Bodo Pipeline	019	
Federated Batched Heavy			
	Federated Batched Heavy	089	
	Judy Creek Truck Terminal		818
Peace Batched Heavy			
	Peace Batched Heavy	090	
Rangeland Batched Heavy			
	Rangeland Batched Heavy	091	

LISTING OF PIPELINE AND TERMINAL NUMERICAL CODES - BY STREAM TYPE AND NAME (as of July 21, 1989)

STREAM TYPE AND NAME	Pipeline Company	Pipeline Code	Terminal Code
SEGREGATED CONDENSATE			
Cremona C5+ -Condensate			
	Cremona Pentanes Plus/Condensate Pipeline	070	
	Harmattan Terminal		817
Rainbow C5+ -Condensate			
	Kemp River	076	
Other C5+ -Condensate			
	Gibson Segregated Condensate Terminal - Hardisty		897
	Gibson Segregated Condensate Terminal - Edmonton		924
Miscellaneous Accounting Codes			
	Conoco Edson	077	
	Conoco Edson Terminal		903
	Porcupine Hills Pipeline	086	
	Road Oil	900	
	Load Oil	899	

G.B./APMC